

Assignment 1

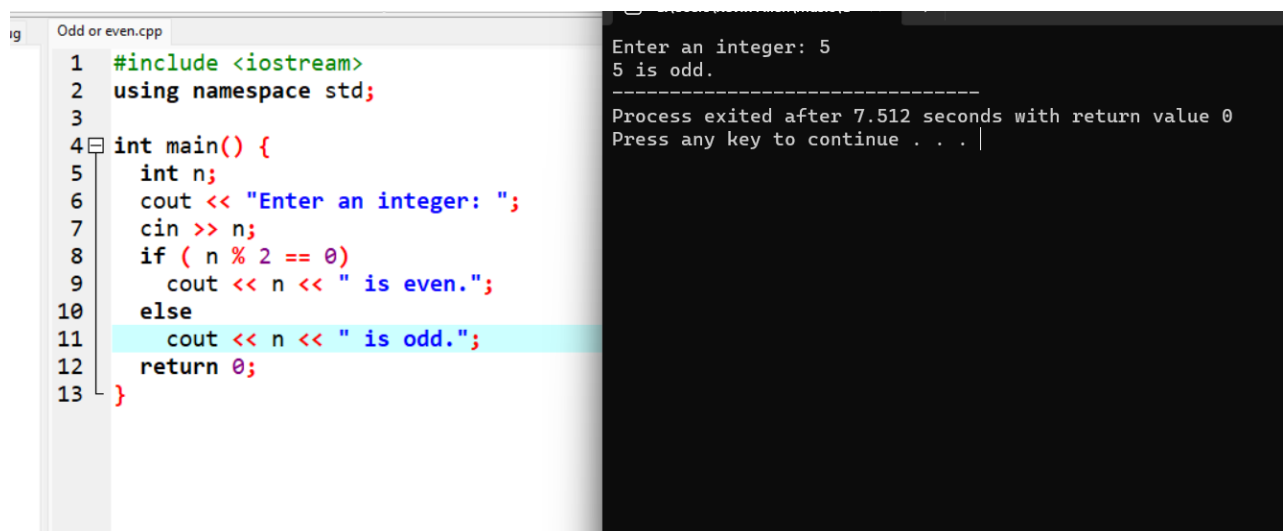
DSA0156-Object oriented programming

C++ Gaming

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1.Odd or Even

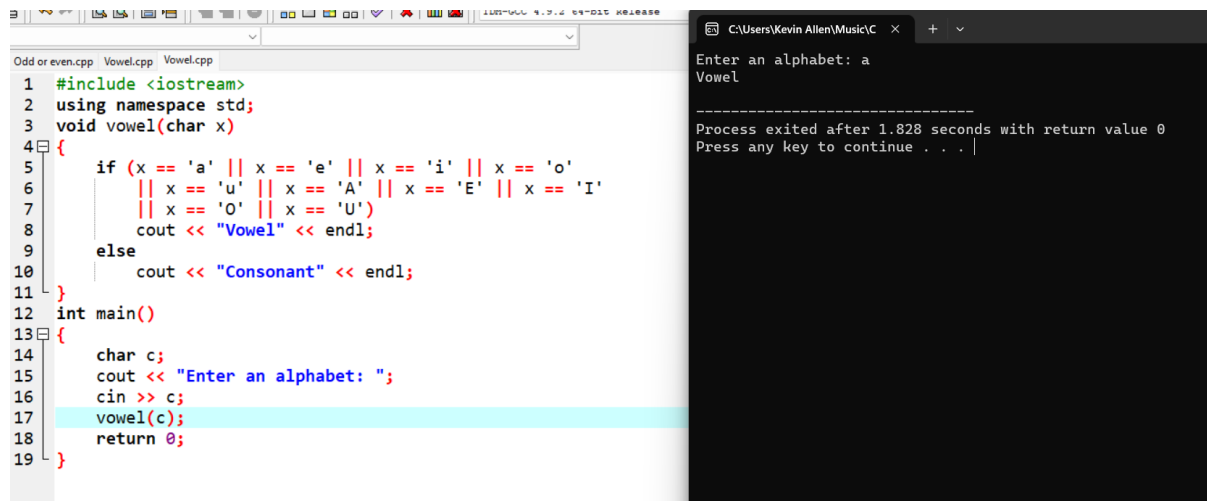


The screenshot shows a C++ IDE with a file named 'Odd or even.cpp'. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int n;
6     cout << "Enter an integer: ";
7     cin >> n;
8     if ( n % 2 == 0)
9         cout << n << " is even.";
10    else
11        cout << n << " is odd.";
12    return 0;
13 }
```

The execution output on the right shows the program running and asking for an integer. The user enters 5, and the program outputs '5 is odd.' followed by a message indicating the process exited after 7.512 seconds.

2.Vowel or consonant

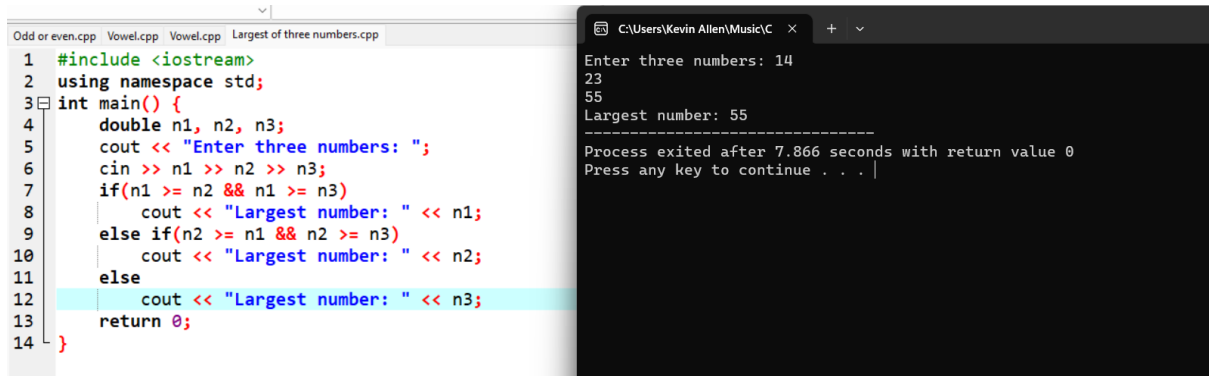


The screenshot shows a C++ IDE with a file named 'Vowel.cpp'. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3 void vowel(char x)
4 {
5     if (x == 'a' || x == 'e' || x == 'i' || x == 'o'
6         || x == 'u' || x == 'A' || x == 'E' || x == 'I'
7         || x == 'O' || x == 'U')
8         cout << "Vowel" << endl;
9     else
10        cout << "Consonant" << endl;
11 }
12 int main()
13 {
14     char c;
15     cout << "Enter an alphabet: ";
16     cin >> c;
17     vowel(c);
18     return 0;
19 }
```

The execution output on the right shows the program running and asking for an alphabet. The user enters 'a', and the program outputs 'Vowel' followed by a message indicating the process exited after 1.828 seconds.

3.Largest of three numbers



The image shows a C++ IDE with two windows. The left window displays the source code for a program that finds the largest of three numbers. The right window shows the program's execution output.

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     double n1, n2, n3;
5     cout << "Enter three numbers: ";
6     cin >> n1 >> n2 >> n3;
7     if(n1 >= n2 && n1 >= n3)
8         cout << "Largest number: " << n1;
9     else if(n2 >= n1 && n2 >= n3)
10        cout << "Largest number: " << n2;
11    else
12        cout << "Largest number: " << n3;
13    return 0;
14 }
```

Execution Output:

```
Enter three numbers: 14
23
55
Largest number: 55
-----
Process exited after 7.866 seconds with return value 0
Press any key to continue . . . |
```